

15 Morphological Characteristics and Antibacterial Activity in Leaves of *Pelargonium x fragrans* 'Mabel Grey'

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The essential oil produced by glandular trichomes may act to protect the aerial parts of the plant against herbivores and pathogens. The biological activity of the secondary metabolites in the secreted products is important to the pesticide, pharmaceutical, flavouring and fragrance industries. *Pelargonium x fragrans* 'Mabel Grey' has been investigated for some morphological characteristics of glandular trichomes by electron microscopy, assessed for their antibacterial activity *in vitro* by inhibition zone assay, and analyzed their contents by combined gas chromatography-mass spectrometry.

Keywords: essential oil, trichome, antibacterial activity, *Pelargonium*